

The background is a blue-tinted technical drawing of a mechanical assembly, possibly an engine or a vehicle chassis, with various bolts, nuts, and structural components. Overlaid on this are several text elements: a horizontal bar at the top, the main title 'Clean Car Maps', the date '2 October 2001', the organization 'CALSTART', its address '2181 E. Foothill Blvd, Pasadena, CA 91107', and the contact person 'Leeor Alpern' with phone number '(626) 744-5601'. At the bottom, there is a large, semi-transparent text overlay that reads 'natural gas vehicles' and 'electric vehicles'.

Clean Car Maps

2 October 2001

CALSTART

**2181 E. Foothill Blvd
Pasadena, CA 91107**

Leeor Alpern
(626) 744-5601

natural gas vehicles

electric vehicles

Agenda

- Current Clean Car Maps & Database Process
- Assessment of Current Clean Car Maps
- Proposed New Database Maintenance Process
- Maintenance Process Assessment

[http:// www.cleancarmaps.com](http://www.cleancarmaps.com)

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The screenshot shows the homepage of Clean Car Maps. At the top is a navigation bar with links: Home, Driving Directions, Daily Site Report, Station List, Site Spotlight, FAQ, and Report Site Problem. Below this is a banner stating 'SPONSORED BY THE SOUTH COAST AIR QUALITY MANAGEMENT'. The main text welcomes users and mentions the use of Mapquest for location maps and driving directions. A search section titled 'Search by fuel type and address in California:' features icons and checkboxes for various fuel types: Electric Inductive, Electric Conductive, CNG, LNG, LPG, Methanol (M85), and Ethanol (E85). Below the fuel type options are input fields for 'Address/Intersection:' and 'City:'.

1,100 alt. fuel stations!!

www.cleancarmaps.com
Confidential and Pro

Current Clean Car Maps Website

CHARACTERISTICS

Online Access

Daily Average Search Requests - 150,000 - 250,000

Database (DB) - Filemaker Pro

CLEAN CAR MAPS WEBSITE FEATURES

Multiple Fuel Types

Multiple Providers

California Focus

Online Data on 1100+ refuel stations in CA

Interactive, Printable Maps of Station Locations

Click-and-Turn Directions Available

Detailed Data on Each of the Refuel Locations (Hours, Price, Payment Options)

Ability to Highlight new locations)

Additional information

Confidential and Proprietary

Present Database Maintenance Process

100+ Sites
+ Providers

Utility Providers

Religious Providers

Infrastructure
Providers/OEMs

Users

Random e-mail
status information
to CALSTART



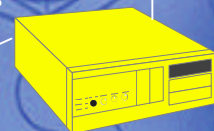
1. Periodic phone-calls
to all providers

2. Verbal site status/updates
3. Manual PC input Database up



CALSTART
Server

Intranet



Internet



MapQuest Server
Database

4. MapQuest Database
update via Internet

Confidential and Proprietary

Assessment

ADVANTAGES

- Free Database
- Alternative Fuel Neutral
- Simple Format
- Easy to use
- Free MapQuest Database via Internet

DISADVANTAGES

- Frequent phone-calls to all providers
- Manual site status/updates
- Manual PC input Database updates (Labor Intensive)
- ~1100 sites, 85% of the labor is spent on DB maintenance
- Outdated and In-accurate data (No Accuracy Checks)
- Formal outreach to add new sites
- Formal outreach to attract new providers
- AFV Outreach Activities (AFV Marketing, Education, Info)

Proposed New DB Maintenance Proc

– Application Package Provided to Provider

1. CCM Application installed on “Provider’s” System
- Works with “Provider’s” Fuel Station Database/Document File



2. Custodian changes Database
- Application “Pushes” update to CCM Server via Internet



CALSTART
Server



Intranet

CCM
Server &
Database



3. Webmaster Alert
Database update
- Accept/Rejec



MapQuest
Server & Database

4. MapQuest Database
updated via Internet

New Maintenance Process Assessment

ADVANTAGES

- Secure Database
- Alternative Fuel Neutral
- Flexible Format
- Easy to use
- Utilize MapQuest Database via Internet
- Periodic phone-calls to all providers
- Comprehensive evaluation of status/updates
- Eliminates Manual PC input Database updates
- Accessible to all sites easily

DISADVANTAGES

- Latency depends on provider
- Accurate data depends on provider
- Not available to Non-Internet or providers lacking PC systems

Proposed Enhancements

Current CCM Website

8 Alternative Fuel Types

- 53 Fuel Providers
- California Focus
- Locates 1100+ stations
- Maps
- Directions Available
- Detailed Data
- FAQs
- News

Additional features create value for potential sponsors and users

Planned CCM Website

8 Alternative Fuel Types

- > 53 Fuel Providers
- Multi-Region Focus
- Locates 4000+ stations
- Maps
- Directions Available
- Detailed Data
- FAQs
- News
- Re-Fueling Instructions
- Product Information
- Service Information
- AFV Info & Education
- Links to Stakeholders
- Downloadable Info
- PDA Database access
- Community (Chat)